AUTHOR INDEX

	Page
Adams, J. A.	501
Adams, S. K.	223, 290
Allen, T. J.	487, 500
Alluisi, E. A.	53, 101
Atkinson, A. P. C.	125, 187
Ayoub, M. M.	265, 291
Baron, M. L.	311, 431
Bartlett, M. W.	1, 99
Bennett, C.	237, 281, 290, 292
Blaiwes, A. S.	523, 598
Botzum, G. D.	197, 289
Bray, R. S.	561, 601
Caro, P. W.	502, 598
Champness, B. G.	437, 499
Clark, C.	295, 431
Clement, D. E.	43, 100
Coates, G. D.	53, 101
Collins, A. M.	379, 433
Conrath, D. W.	459, 499
Corlett, E. N.	105, 187
Davis, H. L.	103, 187, 195
Delionbach, L. J.	17, 100
Dey, S.	237, 290
Duncanson, J. P.	471, 499
Easterby, R. S.	163, 189
Evans, T. E., Jr.	401, 433
Faulkner, T. W.	149, 188
Gallenstein, J.	91, 102
Gerstberger, A. G.	487, 500
Ghista, D. N.	67, 102
Gillani, N. V.	67, 101
Gould, J. D.	33, 100
Grandjean, E.	111, 187, 247, 290
Haddon, W., Jr.	355, 432
Hazell, J. W.	401, 433
Heimstra, N.	269, 291
Hess, R. A.	275, 292
Hoffmann, E. R.	421, 434
Hünting, W.	247, 291
Huston, R. L.	91, 102
Jacobs, R. S.	569, 601
Kamon, E.	75, 102
Khalil, T. M.	257, 291
Kincaid, J. P.	17, 99
Klemmer, E. T.	435
Knoop, P. A.	583, 601
Konz, S.	237, 290
Ladan, C. J.	9, 99
Leslie, J. H., Jr.	223, 290
Levine, J. M.	407, 434
Lucaccini, L. F.	401, 433
Lucas, R. J.	401, 433
Lucas, R. L.	197, 269, 289, 291
McLean, J. R.	421, 434
McRuer, D. T.	367, 432
Mills, R. G.	327, 349, 432
Morgan, B. B., Jr.	53, 101
Murphy, T. J.	149, 188
Nelson, T. M.	9, 99
Nemecek, J.	111, 187
North, R. A.	321, 432
Peace, D. M. S.	163, 189
Pollack, I.	395, 433
Povenmire, H. K.	533, 600
Puigh, J. A.	523, 599
Regan, J. J.	523, 599
Reid, A. A. L.	449, 499
Roscoe, S. N.	534, 543, 569, 600
Rosenthal, M.	137, 188
Samet, M. G.	407, 434
Schärer, R.	247, 291
Schoonard, J. W.	33, 100
Smith, L. A.	1, 99
Smode, A. F.	598, 602
Snyder, H. L.	193
Spiegel, D.	269, 291
Swain, A. D.	129, 188, 207, 289
Valverde, H. H.	510, 603
Wier, D. H.	367, 432
Williams, A. D.	471, 499
Williges, B. H.	543, 601
Williges, R. C.	179, 189, 293, 295, 311, 321, 327, 349, 431, 543, 569, 601
Wong, K. W.	21, 100
Wotzka, G.	247, 291
Yacoumelos, N. G.	21, 100
Yoder, T. A.	197, 289

SUBJECT INDEX

	Page
Accidents	197
safety training	223
Acuity, visual, and vibration	379
Age, lifting standards	237
Aged, femoral fractures	355
Aircraft panel layout	1
Algorithms	
driver/vehicle dynamic response	367
for panel layout	1
performance measurement	583
readability index	17
response surface methodology	295
swimming motions	91
Ames Height Control Test Apparatus (HCTA)	561
Anthropometry	
chair evaluation	247
for electronic production equipment	137
see also Biomechanics	
Architecture	
and large-space offices	111
and office layout	487
Attitudes	
toward chair comfort	247
toward communication	437
toward large-space offices	111
nonadjectival ratings scales	275
toward office layouts	487
toward video conferencing	471
toward work	129
user expectations	163
Audition	
communication media	437
communication systems, Special Issue	435
noise in large-scale offices	111
Automation	
and job enrichment	129
and work	281
Automated performance measurement	583
Automated Readability Index (ARI)	17
Aviation	
dial design	395
flight-director displays	569
flight simulators, Special Issue	502, 510, 534, 543, 561, 569, 583
pilot training and simulators, Special Issue	501
ratings, pilot performance	547, 583
surveillance systems	337
Biomechanics	
dental hand instruments	401
electromyography	197, 257
fever and muscular output	53
forces and torques in lifting	237
laddermill and ergometry	75
muscle fatigue	67
swimming motions	91
TIMA (Total Integrated Muscular Activity Method)	259
Cartographic symbols	21
video symbol location	321
Chairs, evaluation	247
workplace design and posture	265
Climate, room	111
Color	
lighting for difficult visual tasks	149
TV displays, vs. black-and-white	21
TV maps	321
Comfort, chairs	247
posture and work place design	265
Communications	
organizational structure	459
person-person media	437
in product engineering department	487
Special Issue	435
telecommunications	449
video conferencing	471
Computer-assisted instruction	552
Computer system design	163
Conferences, video	437, 449, 471
Conflict, information	407
Controls	
electromyography	197, 257
dental hand instruments	401
isometric, tracking	275
panel layout	1
torque-wrench handle	257
Cost-effectiveness	
general aviation trainer	534
incremental transfer	534, 550
and job design	129
telecommunications	449
and training	523
CRAFT (Computerized Relative Allocation of Facilities Technique)	1
Data acquisition, automated	583
Data banks, maps	21
organizational structure and communication	459
Decision making	
and information conflict	407
response criterion manipulation	179
in signal detection	43
Defects, manufacturing	33
Density, display	395
Dental hand instruments	401
Detection: see Signal Detection	
Dimensions of work	281
Displays	
color, vs. black-and-white	21
communications media	437
flight-director	569
optimal density	395
panel layout	1
readability index	17
restricted preview and driver performance	421
resolution, video conferencing displays	471

	Page
surveillance system	337
traffic markers	9
TV, and cartographic symbols	21, 321
video conferencing	471
visual landing simulation	561
Driver research	
measurement theory	367
traffic markers	9
part-task training	269
passing judgments	269
restricted preview	421
Drownings	355
Ecology, and energy damage	355
ECR (error-cause removal)	207
Elderly, femoral fractures	355
Electronic production equipment	137
Electromyography	
and control design	197
methodology for evaluation	257
Energy damage and ecology	355
Environment	355
noise, lighting, and room climate	111
vibration and tracking	379
Ergometry and laddermill	75
Experimental design	
predictive validity, RSM	349
response surface methodology (RSM)	555
response surface methodology, Special Issue	293
vibration studies	391
Facilities-allocation algorithm	1
Facilities	
large-scale offices	111
office layout and communication	487
Fatigue	
and illness	53
sustained isometric contraction	67
Femoral fractures, aged	355
Fever, and sustained performance	53
Fire, and energy damage	355
Flight-director displays	569
Flight simulators, Special Issue	501
Forces, in lifting	237
Fractures, femoral, aged	355
Group performance, signal detection	43
Handle, torque-wrench, evaluation	257
Health	
dental hand instruments	401
fever, sustained performance, and muscle output	53
Heat, and energy damage	355
Highways, stop signs	9
Humanization of work	129
Human error, removal program	207
Human factors	
in manufacturing systems design	105
and safety	197
of work	281
Illness, and sustained performance	53
Illumination: see Lighting	
Incremental transfer effectiveness	534, 554
Individual vs. group performance	43
Infectious disease, and performance	53
Information, conflict	407
Inspection, visual search	33
Instruction, computer-assisted	552
Instrument panel layout	1
Isometric contraction, and muscle fatigue	67
tracking control	275
Job analysis, of work	281
Job enrichment	129
Job satisfaction	487
Job selection	125
Job simplification	129
Laddermill and ergometry	75
Landing simulation	561
Layout	
display elements	395
electronic production equipment	137
office communications	487
panel	1
Lifting, forces and torques	237
Lighting	
for difficult visual tasks	149
electronic production equipment	137
of large-space offices	111
17 types	149
Literature reviews	
driver/vehicle system dynamic response	367
electromyographic techniques	257
flight simulators	502, 510, 543
human factors in manufacturing	105
job enrichment	129
laddermill and ergometry	75
lighting for difficult visual tasks	149
response surface methodology	295
training effectiveness	523
vibration and tracking	379
Maintenance, visual search and detection	33
Management information systems	163
Management, and job enrichment	129
Man-computer symbiosis	163
Manufacturing	
electronic production equipment	137
error-removal program	207
human factors design	105
visual inspection	33
Maps, cartographic symbols	2,321
Measurement	
driver/vehicle dynamic reponse	367
laddermill and ergometry	75
organizational structure and communication	459
performance, automated	583
training effectiveness	523
Media, communications	437

	Page
Methodology	
automated performance measurement	583
driver/vehicle response measurement	367
electromyography	257
evaluation of dental hand instruments	401
evaluation in manufacturing systems	105
evaluation of management information systems	163
human factors work analysis	281
laddermill and ergometry	75
nonadjectival ratings scales	275
panel layout	1
predictive validity of RSM	349
response surface	555
response surface, Special Issue	293
skills and selection	125
training effectiveness	523, 543
vibration studies	391
Military training	523
Mob damage	355
Models: see Theory	
Monitoring: see Vigilance	
Motion cues, in simulation	518, 561, 569
Motivation, worker	129
Muscle effort	257
fatigue	67
output, and fever	53
Noise, in large-space offices	111
Offices	
ergonomic investigation	111
communications	487
Opinions: see Attitudes	
Organization, and communication	459
Panel layout	1
Part-task training, driver	269
Passing judgments, driver	269
Performance tests	53
Phlebotomus fever, and performance	53
PLATO	552
Pocture, and work design	265
Predictive validity, RSM	349
Preferences, multipurpose chairs	247
see also Attitudes	
Preview, and driver performance	421
Programmed learning, and safety	223
Publications, readability,	17
Quality control, error-removal program	207
visual search and inspection	33
Ratings	
nonadjectival ratings scales	275
pilot performance	547, 583
Reading difficulty	17
Reading fonts	395
Readability index	17
Reliability of information	407
Research, and response surface methodology	293
Resolution	
display, optimal density	395
TV cartographic symbols	321
TV displays	21
video conferencing displays	471
Response surface methodology	555
for human performance research	295
predictive validity	349
simulated surveillance system	327
Special Issue	293
symbol location	321
transfer assessment	311
Reviews: see Literature Reviews	
RSM (response surface methodology)	293
Safety	
driver, and training	269
and human factors	197
and programmed learning	223
training technique	223
Satisfaction, job	487
Seats, evaluation	247
Selection, job	125
Sex differences, lifting	237
Search and inspection	33
Signal detection	
cartographic symbols	321
group performance	43
response criterion manipulation	179
surveillance	337
Signs, traffic markers	9
Simulators	
and driver training	269
driver/vehicle simulation	367
flight, Special Issue	501
landing and motion	561
motion studies	518, 561, 569
and pilot training	502
safety training	223
surveillance system	337
visual landing	561
Skills, for job selection	125
Special Issues	
flight simulation	501
human factors in industry- I	103
human factors in industry- II	195
interpersonal communications systems	435
response surface methodology	293
Standards	
forces and torques in lifting	237
lighting for difficult visual tasks	149
work place design and posture	265
Stop signs	9
Strategies, for reducing energy damage	355
Stress	
energy damage	355
illness and sustained performance	53
Surveillance system	337
Swimming motions	91
Syringe, dental	401

	Page
System analysis	
energy damage	355
and job simplification	129
organizational structure and communication	459
telecommunications	449
Task analysis, of work	281
Telecommunications	449
Territorial Imperative	493
Thermal energy damage	355
Theory	
energy damage and ecology	355
construct, and user expectations	163
measurement of driver/vehicle dynamic response	367
response surface methodology, Special Issue	293
signal detection models	43
signal detection	179
skills and selection	125
swimming motions	91
thermodynamic criterion for fatigue	67
TIMA (Total Integrated Muscular Activity Method)	259
Tool design	197
Torques, in lifting	237
Tracking	
driver/vehicle response	367
nonadjectival ratings scales	275
restricted preview and driver performance	421
and vibration	379
Traffic markers	9
Training	
and automated performance measurement	583
computer-assisted instruction	552
effectiveness	523, 543
error-cause removal program	209
measurement	523
methods evaluation	223
and necessary skills	125
part-task simulation for driver	269
response surface methodology	311
safety	223
and simulators	502
Transfer functions, driver/vehicle	367
Transfer of training	
and flight simulators	502, 510, 523, 534, 569, 583
response surface-methodology	311
TV displays	21, 321
communication media	437
for video conferencing	471
telecommunications	449
Unreliable information	407
Vibration	
and tracking	379
and visual acuity	379
Video conferencing	437, 449, 471
Vigilance	
illness and sustained performance	53
response criterion manipulation	
Vision	
cartographic symbol location	21, 321
restricted preview and driver performance	421
signal detection	43, 179
visual acuity and vibration	379
visual landing simulation	561
visual search and inspection	33
traffic signs	9
Welding, human engineering design	137
Work, categories of	281
Work capacity, thermodynamic criterion	67
Work environment, attitudes toward	491
Work physiology	
electromyographic techniques	257
forces and torques in lifting	237
human factors and safety	197
illness and muscular output	53
laddermill and ergometry	75
muscle fatigue	67
swimming motions	91
Work standards, lifting	237
Worker-participation, in error removal	207